

Title : Investigation of bacteria found in dead ornamental fishes

Author(s) : 1. Miss Tanapakaon Wongpratum

Student ID : 640510231

Major : Zoology

Advisor(s) : 1. Assistant Professor Dr. Monruedee Chaiyapo
2. Assistant Professor Dr. Boonsom Bussaban

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ABSTRACT

The ornamental fish industry has experienced consistent growth; however, fish farming often faces challenges related to diseases that arise from variations in weather patterns, water quality, and bacterial infections. The objective of this study was to investigate the diversity of bacteria isolated from naturally dead ornamental fishes. Ornamental fishes were dissected to collect tissue samples from four organs: caudal fins, gills, intestines, and skin. Each organ was swabbed and used as a reservoir on blood agar and MacConkey agar using the streak plate technique. Subsequently, bacterial colonies were subcultured on nutrient agar using the same technique. Each bacterial isolate was then Gram-stained and examined under a microscope. The morphological characteristics of the bacteria were observed and photographed. The results of the study showed that, out of 24 fish, the caudal fins, gills, intestines, and skin had bacterial isolates of 47, 45, 48, and 48, respectively. Further classification and identification of the isolated bacteria will be conducted to determine their potential role in infections of ornamental fishes.

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